

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

<p><b>Substitute for form 1449A/PTO</b></p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p>		<i>Complete if Known</i>	
		Application Number	New Application
		Filing Date	April 19, 2004
		First Named Inventor	Hyungssoo Choi
		Group Art Unit	Unknown
		Examiner Name	Unknown
Sheet	1	of	1
		Attorney Docket Number	
		22010-209	

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>6</sup> (if known)			
		GB 717,269	10/27/1954	Azfa Ag Fuer	
				Photofabrikation	
		WO1999KR0000260	12/02/1999	Ahn, et al.	
		JP1996000202661	02/17/1998	Yasuhiro	

Examiner Signature	/Marc Zimmer/	Date Considered	02/09/2009
--------------------	---------------	-----------------	------------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.Z./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	New Application
				Filing Date	April 19, 2004
				First Named Inventor	Hyungsoo Choi
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	1	of	2	Attorney Docket Number	22010-209

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published		T <sup>2</sup>
/M.Z./		KRUSE, WALTER, ET AL.: "Synthesis and configuration of hydrido(alkyl phosphito)-cobalt and-iron compounds" CHEM. COMMUN., no. 15, 1968, pages 921-922		
/M.Z./		McEWEN, G. K., et al.: "Preparation of hydronickel phosphites" INORG. CHEM., vol. 13, no. 12, 1974, pages 2800-2802		
/M.Z./		GOSSER, L. W.: "Synthesis and properties of cobalt(I) compounds. 3. Hydridoacetonitriletris (triaryl phosphite) cobalt complexes" INORG. CHEM., vol. 15, no. 6, 1976, pages 1348-1351		
/M.Z./		ANDERSON, LORI BETH, ET AL.: "Chemistry of transition-metal phosphine and phosphite complexes. 2. Preparation and properties of XHgCo'P(OC6H5)3!3L" INORG. CHEM. (1982), 21(5), 2095-7, vol. 21, no. 5, 1982, pages 2095-2097		
/M.Z./		CARLTON, LAURENCE: "Rhodium pentafluorophenylthiolate complexes derived from 'Rh2(mu.-SC6F5)2(PPh3)4'" J. ORGANOMET. CHEM., vol. 431, no. 1, 1982 – 2095, page 2097		
/M.Z./		RAKOWSKI, M. C., ET AL.: "Low valent cobalt triisopropyl phosphite complexes. Characterization of a catalyst for the hydrogenation of .alpha.,.beta.-unsaturated ketones" J. AM. CHEM. SOC., vol. 99, no. 3, 1977, pages 739-743		
/M.Z./		MUETTERTIES, E. L. ET AL.: "Reductive elimination reactions" J. AM. CHEM. SOC., vol. 98, no. 15, 1976, pages 4665-4667		
/M.Z./		MUETTERTIES, E. L. ET AL.: "Chemistry of the transition metal-hydrogen bond. II. HCo'P(OR)3!4" J. AM. CHEM. SOC., vol. 96, no. 26, 1974, pages 7920-7926		
/M.Z./		MUETTERTIES, E. L. ET AL.: "Complexity in the reductive reaction of cobalt (II) chloride in the presence of phosphites. Isolation of stable, noninterconvertible Co'P(OCH3)3!4 and Co2'P(OCH3)3!8 molecules" J. AM. CHEM. SOC., vol. 104, no. 10, 1982, pages 2940-2942		
/M.Z./		LEVISON, JEFFREY J. ET AL.: "Transition-metal complexes containing phosphorus ligands. I. Triaryl phosphite complexes of cobalt and nickel" J. CHEM. SOC. A, no. 1, 1970, pages 96-99		
/M.Z./		DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US: PARSHALL, G. W.: "Homogeneous catalytic activation of hydrocarbons" retrieved from STN Database accession no. 85:176606 abstract & ORGANOTRANSITION-MET. CHEM., PROC. JPN.-AM. SEMIN., 1ST (1975), MEETING DATE 1974, 127-34. EDITOR(S): ISHII, YOSHIO; TSUTSUI, MINORU. PUBLISHER: PLenum, NEW YORK, NY		
/M.Z./		CHATT, J. ET AL.: "Hydrido-complexes of Iridium (III) Stabilised by Tertiary Phosphines and Arsines" J. CHEM. SOC. A, 1965, pages 7391-7405		
/M.Z./		BAREFIELD, E. K., ET AL.: "Catalysis of Aromatic Hydrogen-Deuterium Exchange by Metal Hydrides" J. AM. CHEM. SOC, 92:17, 1970, pages 5234-5235		
/M.Z./		TITUS, D. D., ET AL.: "The Crystal and Molecular Structure of Hydridotetrakis (diethyl phenylphosphonite) cobalt (I)," CHEMICAL COMMUNICATIONS, 1971, pages 322-323		

Examiner Signature	/Marc Zimmer/	Date Considered	02/09/2009
--------------------	---------------	-----------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\* Applicant's unique citation designation number (optional). <sup>1</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

<b>Substitute for form 1449B/PTO</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>		
Sheet		2	of	2	Attorney Docket Number	
22010-209						

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published		T <sup>2</sup>
/M.Z./		LANE, P. A. ET AL.: "Metal Organic CVD of Cobalt Thin Films Using Cobalt Tricarbonyl Nitrosyl" CHEM. VAP. DEPOSITION 1998, 4, No. 5, pages 183-186		
/M.Z./		MARUYAMA, T: "Cobalt Thin Films Prepared by Chemical Vapor Deposition from Cobalt Acetylacetones" JPN. J. APPL. PHYS., Vol. 36, 1997 Pt. 2, No. 6A, pages L705-L707		
/M.Z./		GROSS, M. E., ET AL.: "Organometallic chemical vapor deposition of cobalt and formation of cobalt disilicide" J. VAC. SCI. TECHNOL. B 6 (5), Sep/Oct 1988, pages 1548-1552		
/M.Z./		DORMANS, G.J.M., ET AL.: "OMCVD of cobalt and cobalt silicide" J CRYSTAL GROWTH, Vol. 114, 1991, pages 364-372		
/M.Z./		WERNER, H., ET AL.: "Synthesis and Reactivity of OsH( <i>n</i> <sup>2</sup> -CH <sub>2</sub> PMe <sub>2</sub> )(PMe <sub>3</sub> ) <sub>3</sub> and of the Basic Dithydridoosmium Complex cis-OsH <sub>2</sub> (PMe <sub>3</sub> ) <sub>4</sub> " J. AM. CHEM. SOC., No. 2 1983, pages 547-549		
/M.Z./		GERLACH, D. H., ET AL.: "Stereocochemically Nonrigid Six-Coordinate Molecules. II. Preparations and Reactions of Tetrakis (organophosphorus) Metal Dihydride Complexes" J. AM. CHEM. SOC., 94:13, 1972, pages 4545-4549		
/M.Z./		SMITH, K. C., ET AL.: "Evaluation of precursors for chemical vapor deposition of ruthenium" THIN SOLID FILMS, No. 376, 2000, pages 73-81		
/M.Z./		MEIER, M., ET AL.: "Tetrakis (Triethyl Phosphite) Nickel (0), Palladium (0), and Platinum (0) Complexes" INORGANIC SYNTHESES, Vol. 13, 1972, pages 112-116		
/M.Z./		TITUS, D., ET AL.: "Low-Valent Metal Complexes of Diethyl Phenylphosphonite" INORGANIC SYNTHESES, Vol. 13, 1972, page 117		
/M.Z./		COULSON, D. R.: "Tetrakis (Triphenylphosphine) Palladium (0)" INORGANIC SYNTHESES, Vol. 13, 1972, pages 121-123		
/M.Z./		SCHUNN, R. A.: "Tetrakis (Triphenylphosphine) Nickel (0) INORGANIC SYNTHESES, Vol. 13, 1972, page 124		
/M.Z./		YOSHIDA, T., ET AL.: "Two-Coordinate Phosphine Complexes of Palladium (0) and Platinum (0)" INORGANIC SYNTHESES, Vol. 19, 1979, pages 101-111		
/M.Z./		"Pentakis (Trimethyl Phosphite) Iron (0)" INORGANIC SYNTHESES, Vol. 120, 1980, pages 79-81		
/M.Z./				

Examiner Signature	/Marc Zimmer/	Date Considered	02/09/2009
--------------------	---------------	-----------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.